

MINING APPLICATION

NO. _____

Date _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116



NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS
(See Rule M of General Rules and Regulations)

1. Name of Applicant or Company Atlas Minerals, Division of Atlas Corporation
Corporation (X) Partnership () Individual ()
2. Address Big Indian Mines Moab, Utah 84532
Permanent Temporary
3. Name and title of person representing company T.L. Wilson, Manager of Mines
4. Address Big Indian Mines Office Phone 686-2217
5. Location of Operation Emery Sec. 22 T. 21S R. 14E
County
6. Name of Mine Four Corners Mines
7. Mineral to be mined: Mining method:

| | | |
|---------------------------|--------------------------|---------------------------|
| () Coal | () Flagstone | <u>Underground Random</u> |
| () Copper | () Gravel | |
| () Manganese | () Shale | <u>Room and Pillar</u> |
| () Iron Ore | (X) Uranium | |
| () Phosphate | () Gilsonite | |
| () Potash | () Bituminous Sandstone | |
| () Fluorspar | () Tungsten | |
| () Other (specify) _____ | | |
8. Have you or any person, partnership or corporation associated with you received an approved Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein?
() Yes () No
If yes, list all approval numbers now under surety:

| | | |
|--------------------|--------------------|--------------------|
| <u>ACT-037-003</u> | <u>ACT-037-008</u> | <u>ACT-015-011</u> |
| <u>ACT-037-006</u> | <u>ACT-037-010</u> | |
| <u>ACT-037-007</u> | <u>ACT-037-012</u> | |
9. Owner/Owners of record of the surface area within the land to be affected:

| | |
|----------------------|--|
| <u>Public Domain</u> | Address <u>Bureau of Land Management</u> |
| _____ | Address _____ |
| _____ | Address _____ |
| _____ | Address _____ |

10. Owner/Owners of record of minerals to be mined:

| | |
|-----------------------|---------------------------|
| <u>Atlas Minerals</u> | Address <u>Moab, Utah</u> |
| _____ | Address _____ |
| _____ | Address _____ |
| _____ | Address _____ |

11. Owner/Owners of record of all other minerals within any part of the land affected:

| | |
|-----------------------|---------------------------|
| <u>Atlas Minerals</u> | Address <u>Moab, Utah</u> |
| _____ | Address _____ |
| _____ | Address _____ |

11a. Have the above owners been notified in writing?
(X) Yes () No

12. Source of Operator's legal right to enter and conduct operations on land to be covered by the Notice Ownership of unpatented mining claims

13. Approximate acreage to be disturbed:

| | | |
|--|-------------|-------|
| A) Mining Operation Area - | <u>30.9</u> | acres |
| (include operations, storage, & disposal area) | | |
| B) Access Road or Haulageway - | <u>0.9</u> | acres |
| C) Drainage System - | <u>0</u> | acres |

TOTAL ACRES:

31.8

34 Amended 11/22/78

14. Give the names and post office addresses of every principal Executive, Officer, Partner, (or person performing a similar function) of Applicant:

| Name: | Title: | Address: |
|-----------------------|------------------|--------------------------------|
| a. <u>A.E. Dearth</u> | <u>President</u> | <u>Atlas Minerals</u> |
| b. _____ | _____ | <u>Division of Atlas Corp.</u> |
| c. _____ | _____ | <u>2506 Prudential Plaza</u> |
| d. _____ | _____ | <u>1050 17th Street</u> |
| | | <u>Denver, Colorado 80202</u> |

15. Has Applicant, any subsidiary or affiliate or any person, partnership, association, trust, or corporation controlled by or under common control with Applicant, or any person required to be identified by Item 14, ever had an approval of a Notice of Intention withdrawn or has surety relating thereto ever been forfeited? () Yes (X) No

If yes, explain:

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MINING AND RECLAMATION PLAN

(Other forms may be used in lieu of MR 2, provided
they contain the same information)

1. Name of Applicant or Company Atlas Minerals, Division of Atlas Corporation
2. Proposed type of operation Underground Uranium Mine
3. (a) Prior Land Use(s) Mining, Grazing
(b) Current Land Use(s) Mining
(c) Possible or Prospective Future Land Use(s) Grazing
4. What vegetation exists on the land proposed to be affected Shadscale,
Indian Rice grass, and miscellaneous forbes.
(a) Types and Estimated Percent cover or density: Less than 5 percent cover
5. What is the pH range of soil before mining? 8.2 - 8.6 pH
Name of Person or Agency and method of determining pH Brad Clark,
Atlas Minerals, using a Lamotte Colorimetric method.
6. Site elevation above sea level 4400 feet ±
7. In case of coal, oil shale, and bituminous sandstone:
Principal seam(s) and thickness(es) NA
8. Estimated duration of mining operations 10 years
9. Has overburden, waste or rejected materials been classified as acid or
alkali producing? () Yes (X) No
Does the above material being moved have any other characteristics
affecting revegetation? Nutrient deficient
10. Will any underground workings or aquifers be encountered? (X) Yes () No
Describe Underground workings
Is there an active discharge of water from abandoned deep mines on or
crossing the land affected? () Yes (X) No If yes, describe
the quality of water being discharged. _____

11. Describe specifically a detailed procedure for: See Attachment A for all the following:
- (a) The mining sequence
 - (b) The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
 - (c) The procedure for site preparation including removing trees and brush.
 - (d) The method for removing and stockpiling topsoil or disturbed materials.
 - (e) The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic materials.
 - (f) A procedure for final stabilization of disturbed materials.

GRADING AND REGRADING

Specifically describe:

- (a) Typical cross-section of regrading. See Attachment B
- (b) The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material. See Attachment A
- (c) What type of soil treatment will be utilized. See Attachment A
- (d) The method of drainage control for the final regraded area. See Attachment A
- (e) Maximum grading slope. See Attachment A

TESTING

1. Describe method for testing stability of reclamation fill material.

Observation of existing waste rock stockpiles.

Describe method for the testing of soil that is intended to support vegetation

Soil analysis; proposed revegetation tests

2. Describe any soil treatment employed as an aid to revegetation None
planned at this time; pending results of revegetation tests.
3. Describe surface preparation of areas intended to support vegetation:
Regrade disturbed areas, round off and stabilize waste rock stockpiles,
and scarify compacted surfaces.

REVEGETATION

1. Revegetation to be completed by:

() Operator
() Soil Conservation District
() Private Contractor
() Other (specify) _____

() Hydroseeding
() Aerial Seeding
() Conventional or Rangeland Drill
(X) Broadcast and Drag
() Other _____

2. Will Mulch be used? () Yes (X) No

Type: _____ Rate/Acre _____ lbs.

3. Revegetation Plan and Schedule -

| Species | Rate/ Acre | Planting Location | Facing N-S-E-W | Season to be replanted |
|--------------------|---------------|----------------------|-------------------|---------------------------|
| Indian Rice grass | 1.0#/acre | All | All | Preferably Fall |
| Four Wing Saltbush | 1.0 " | " | " | " |
| Sand Drop-Seed | 1.0 " | " | " | " |
| Crested Wheatgrass | 2.0 " | Near Drainage | " | |
| | | | | |

4. Will affected area be subject to livestock or wildlife grazing?

(X) Yes () No Will vegetation protection be needed? _____
Control cannot be accomplished, protection will be employed.

5. Will irrigation be used: () Yes (X) No Type _____

6. Describe maintenance procedures for revegetation if needed, until surety release is granted.

Monitoring and reseeding if necessary.

STATE OF UTAH

COUNTY OF GRAND

I, THOMAS L. WILSON, having been duly sworn
depose and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the Applicant and this
application has been executed as required by law.

Signed: *Thomas L. Wilson*

Taken, subscribed and sworn to before me the undersigned authority
in my said county, this 27th day of July, 19 77.

Notary Public: *Lee Stock*

My Commission Expires: 11-2-77

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides as
follows:

"Information relating to the location, size, or nature
of the deposit and marked confidential by the operator,
shall be protected as confidential information by the
Board and the Division and not be a matter of public
record in the absence of a written release from the
operator, or until the mining operation has been
terminated as provided in subsection (2) of section
40-8-21."

Is confidential information contained herein?

YES *OK* (Initial)

NO _____ (Initial)

Sections desired to be maintained as confidential information -

MARS _____

ATTACHMENT A

FOUR CORNERS MINES

LOCATION

Atlas Minerals is currently operating the Four Corners Mines located on Section 22, Township 21 South, Range 14 East in Emery County (Refer to Map M-1). The Four Corners mines consist of extensive underground workings with all declining and shaft entries constructed prior to May 1975. Atlas Minerals is actively mining from the Number 2 and the Number 6 declines. Proposed and current development will reactivate the Number 9 and Dino declines.

At an elevation of approximately 4400 feet, the surface sites are sparsely vegetated with Indian Rice grass, shadscale, and miscellaneous forbes. Vegetation comprises less than five (5) per cent of the ground cover. There are no natural water bodies on or adjacent to the affected area.

MINING PLAN

Using a random room and pillar technique, uranium ore in the Saltwash member of the Morrison formation is being mined underground in a safe, orderly, and minerlike fashion. See Map M-3.

Number 2 decline consists of a 7.2 acre surface site. An additional 0.6 acres will be necessary to stockpile waste rock. One (1) borehole, two (2) abandoned shafts, and one (1) abandoned decline provide ventilation; two (2) ventilation boreholes are proposed for this mine.

Ore pads, waste rock, stockpiles, and general office and shop facilities occupy a total of 16.6 surface acres at the Number 6 decline. The surface site will not be expanded at this location. One (1) borehole, three (3) abandoned declines, and the abandoned Jack Rabbit shaft provide ventilation for the existing operation; two (2) additional ventilation boreholes are proposed by development plans.

Number 9 decline will be reconditioned to develop existing underground workings. Only the 2.4 acres of existing surface site will be utilized. Two (2) boreholes will be required to supplement an existing abandoned shaft for ventilation.

Dino decline will be reopened for development. The 4.1 acres of existing surface site and the 0.9 acres of access road will be utilized; there should be no additional surface disturbance at the Dino decline. One (1) abandoned decline and a proposed borehole will provide the necessary ventilation.

The main access to the mines consists of a county maintained road. See Maps M-2.